



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

IT  
GANT

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/660,517	09/12/2003	Shu-Mei Chang	PO92279	5340

7590            05/05/2005

Yi-Wen Tseng  
509 ROOSEVELT BLVD. #D306  
FALLS CHURCH, VA 22044



EXAMINER

CHEN, ALAN S

ART UNIT

PAPER NUMBER

2182

DATE MAILED: 05/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED  
MAY 19 2005  
OIPE/JCWS

**Office Action Summary**

Application No.

10/660,517

Applicant(s)

CHANG, SHU-MEI

Examiner

Alan S. Chen

Art Unit

2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on 12 September 2003.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1-20 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-20 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                    | Paper No(s)/Mail Date: _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date: _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|   | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Specification*

1. The specification is objected to because it is replete with translational and idiomatic errors some of which are listed below:

-page 6, lines 15-16, the word “by” before “because” induces confusion.

-page 6, lines 16-17, the word “with” would be a more appropriately replaced with “without” since the keyboard and mouse must should not exceed the IR communication range.

-page 6, lines 18-19, the words “As the” should be deleted.

Because these errors hinder the interpretation of the mapping between disclosure and the recited claims, the Examiner attempts to interpret the claims in light of the specification to the best that he understands it and issues the rejections below.

2. The disclosure is objected to because of the following informalities: applicant recites an exemplary embodiment of the invention being a child safety blind, on page 6, line 21. However, there is completely no insight nor explicit or implicit rational into the relevance of the invention to child safety blinds.

Appropriate correction is required.

### *Claim Objections*

3. Claim 1 is objected to because of the following informalities: insert the word “for” in line 1, between the words “receiver” and “cordless input”.

4. Claim 18 is objected to because of the following informalities: insert the word “to” in line 25, between the words “operative” and “receive”.

Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

7. Claim 1 discloses that the “primary and secondary receiving modules use a transmission interface to connect each other in a plug-and-play and hot plugging manner”, which is indefinitely because it is unclear whether it is connecting each other, e.g., the primary module is connected to the secondary module (which is what the language seems to lean closer to), or the primary and second module each is connected to the *host* by a plug and play. The Examiner takes the latter view, where the language is interpreted as the devices attach to the host in a plug and play type manner.

8. Claims 2-6 are dependent on claim 1, and therefore are rejected as being dependent on a base claim.

***Claim Rejections - 35 USC § 102***

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

10. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by US Pat. No. 6,782,245 to Lazzarotto et al. (hereafter Lazzarotto).

11. As per claim 1, Lazzarotto discloses a receiver cordless input devices, providing signal reception for wireless transmission for at least two input devices (Fig. 6B, elements 608n), the receiver comprising at least one primary receiving module (Fig. 6B, element 604) and one second receiving module (Fig. 6B, element 605), wherein the primary receiving module is operative to receive a wireless signal transmitted from one of the input devices (clearly untethered nature is shown in Fig. 6B), and the secondary receiving module is operative to receive a wireless signal transmitted from the other input device (each distinct antenna show the untethered communications between separate devices in Fig. 6B), and the primary and secondary receiving modules use a transmission interface to connect each other in a plug-and-play and hot plugging manner (Fig. 6B, element 610 show the USB hub being the physical USB interface to host and other physically wired USB devices).

12. As per claim 7, Lazzarotto discloses a receiver for cordless input devices (Fig. 6B), comprising: a primary receiving module (Fig. 6B, element 604), operative to receive a wireless signal transmitted from a keyboard (Column 4, lines 54-64 disclose peripheral devices, element 608n can be a keyboard); and a secondary receiving module (Fig. 6B, element 604), operative to receive a wireless signal transmitted from a controller (Column 4, lines 54-64 disclose peripheral devices, element 608n can be a controller, particularly a game controller); wherein the primary and secondary receiving modules are electrically connected to each other by a plug-in

Art Unit: 2182

transmission interface (Fig. 6B, element 610 is a USB hub which is physically connected to the host by a plug).

13. As per claim 18, Lazzarotto discloses a receiver for cordless input devices (Fig. 6B, element 600b), including a primary receiving module operative to receive infrared signal (Column 4, lines 60-67) and a secondary receiving module operative to receive radio frequency signal (Column 4, lines 60-67), wherein the primary and secondary receiving modules are electrically connected to each other via a transmission interface (Fig. 6B, element 610 is a USB hub which is physically connected to the host by a plug).

14. As per claims 2-6, 9-10, 13, 14, 16, 17, 19 and 20, Lazzarotto discloses claims 1,7 and 18, wherein the primary receiving module has a USB transmission plug and line (Fig. 6A, inherently so, USB plug and transmission line based on USB specification). Transmission slot is construed to be the slot on the host side, when connected, is one entire unit/apparatus.

15. As per claims 8, 11, 12 and 15, Lazzarotto discloses claim 7, wherein the primary receiving module and secondary comprises a received integrated for receiving a wireless signal from a mouse (Column 4, lines 53-67, various wireless peripheral including mice can be attached via IF or RF).

### ***Conclusion***

16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art with respect to USB hubs operating with various peripheral devices:

U.S. Pat. No. US006195712B1 to Pawlowski et al.

U.S. Pat. No. US006314479B1 to Frederick et al.

U.S. Pat. No. US006434644B1 to Young et al.

U.S. Pat. Pub. No. US 20040243726A1 to O'Keefe et al.

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan S. Chen whose telephone number is 571-272-4143. The examiner can normally be reached on M-F 8:30am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin can be reached on (571) 272-4146. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ASC  
4/28/2005



JEFFREY GAFFIN  
SUPERVISORY EXAMINER  
TECHNOLOGY CENTER 2425  
4/28/2005

<b>Notice of References Cited</b>		Application/Control No.	Applicant(s)/Patent Under Reexamination CHANG, SHU-MEI	
		Examiner Alan S. Chen	Art Unit 2182	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,782,245 B1	08-2004	Lazzarotto et al.	455/226.1
	B	US-6,195,712 B1	02-2001	Pawlowski et al.	710/19
	C	US-6,314,479 B1	11-2001	Frederick et al.	710/63
	D	US-6,434,644 B1	08-2002	Young et al.	710/63
	E	US-2004/0243726 A1	12-2004	O'Keefe et al.	710/001
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

**AN EQUAL OPPORTUNITY EMPLOYER**

**OFFICIAL BUSINESS**

TSENG509 220442011 1104 -3 05/17/05  
FORWARD TIME EXP RTN TO SENDER  
TSENG  
4331 STEVENS BATTLE LN  
FAIRFAX VA 22033-4269

RETURN TO SENDER

